



Visualizing the Research Process: A Participatory Design Study for Developing Research Data Management Library Services

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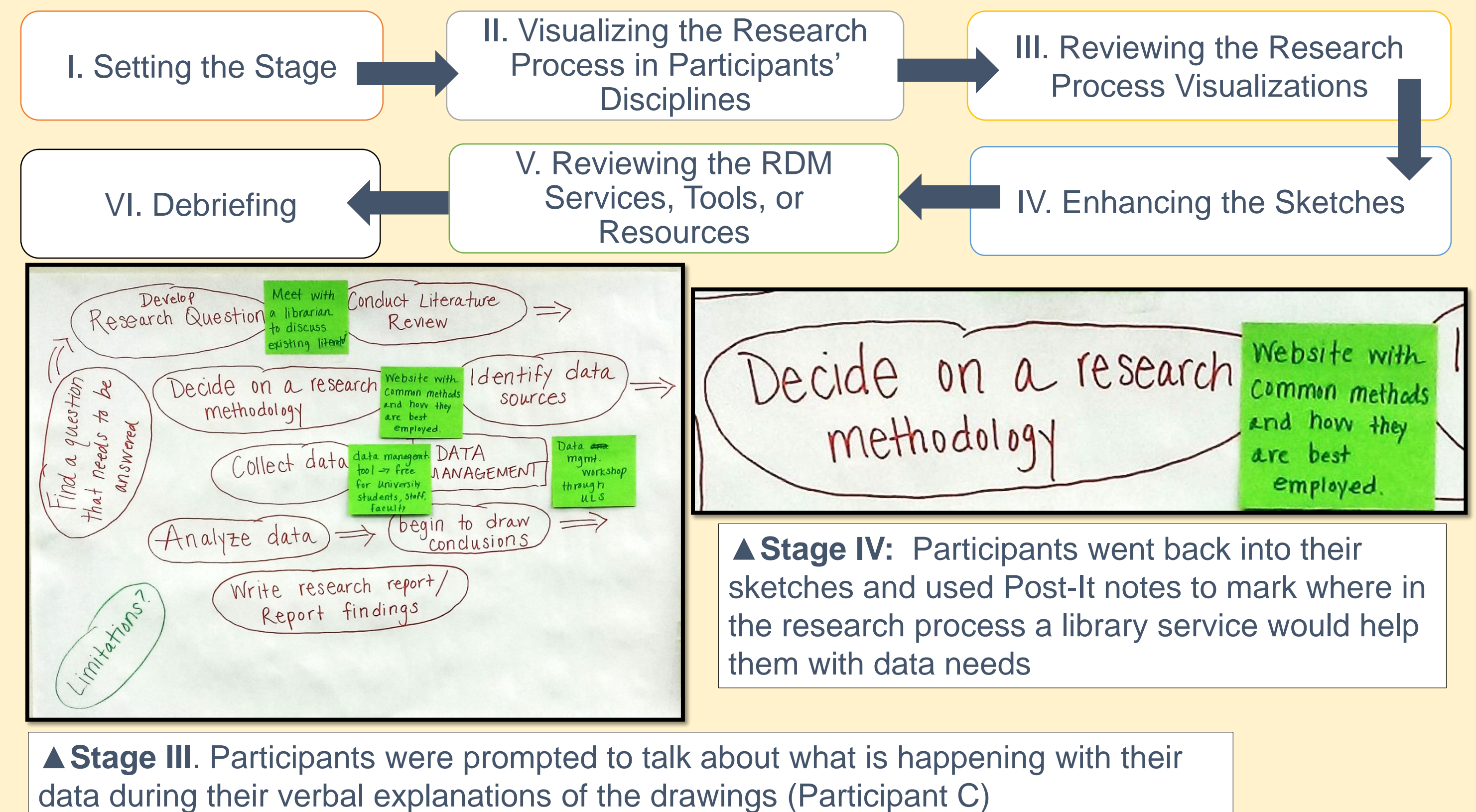
Introduction

- Methodology and findings from a pilot study exploring **early career researchers' visualizations of the research process** in their disciplines
- Visualizations **prompt participants' ideas for new RDM library services**
- Draws on a methodology termed **visual narrative inquiry which uses storytelling** to study individuals' experiences (Bach 2008; Bowler et al, 2014)

Research Questions

- How do early career researchers **visually conceptualize** the research process in their disciplines?
- What does visual narrative inquiry reveal about participants' RDM needs?
- What does visual narrative Inquiry reveal about their recommendations for RDM services?

Methodology

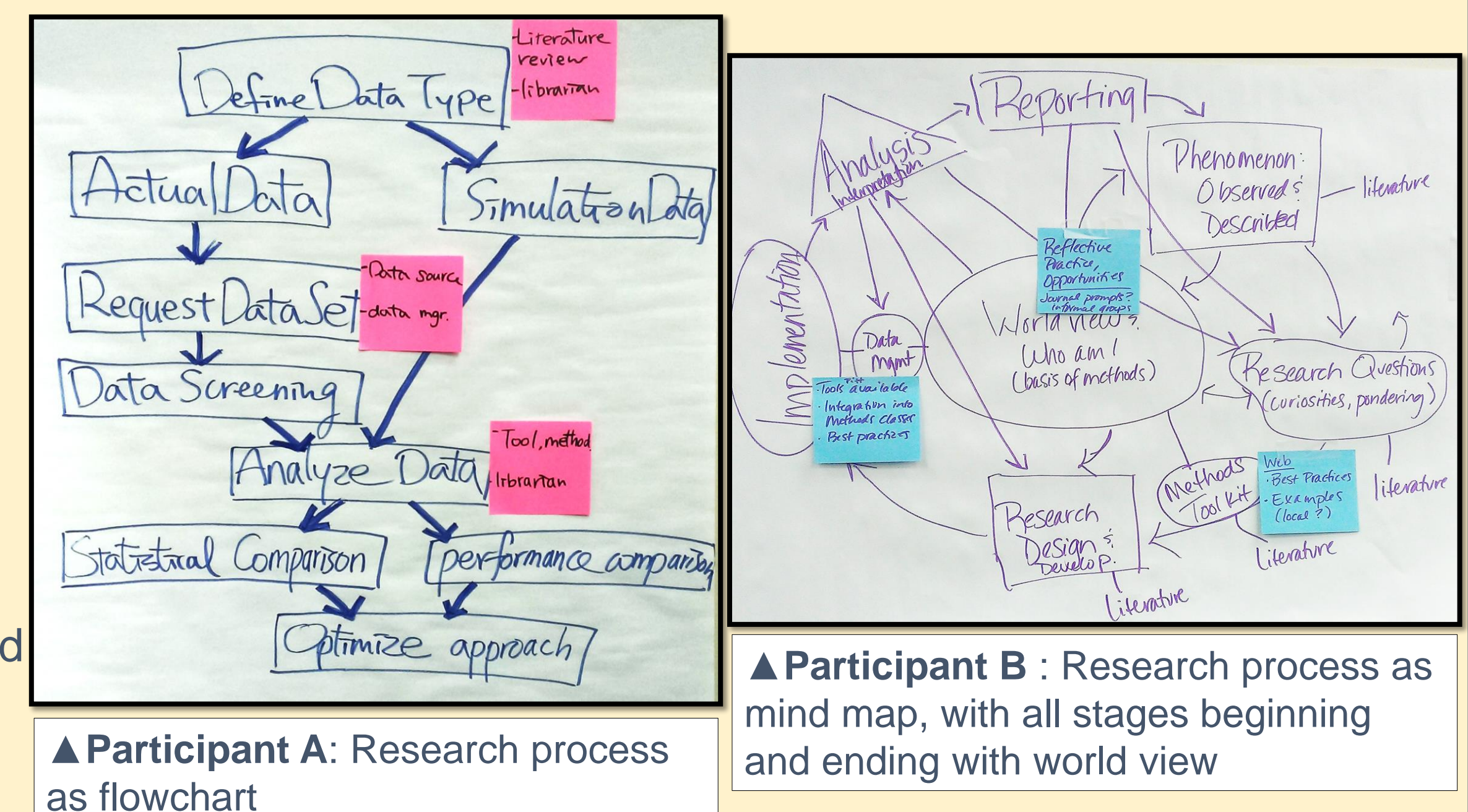


Participants in Pilot Focus Group

ID	Status	Discipline	Structure of Research Process in Sketch	Examples of RDM Service Recommendations
A	Doctoral Candidate in Dissertation Stage	Information Science	Research Process as Flow Chart	Catalog of shared datasets
B	Postdoctoral Researcher	Library and Information Sciences (LIS)	Research Process as Mind Map	Librarian role in integrating information on RDM best practices into methods courses
C	Postdoctoral Researcher		Research Process as Linear Course	RDM workshop on best practices for qualitative researchers
D	Postdoctoral Researcher		Research Process as Linear Course	No RDM services recommended

Preliminary Results and Conclusions

- Researchers visualize the research process differently even in the same or closely related disciplines
- Two participants included RDM as a single stage (see Participant B and C sketches)
- Participants were self-aware that there is room for improvement in their RDM practices and welcomed assistance from the library
- RDM service recommendations included web-based resources, workshops and consultation support
- Not all recommended services related to RDM



References

- Bach, H. (2008). Visual Narrative Inquiry. In Givens (Ed.), The Sage encyclopedia of qualitative research methods (pp. 939-941). Thousand Oaks, CA: SAGE.
- Bowler, L, et al. C. (2014). Developing design interventions for cyberbullying: A narrative-based participatory approach. In iConference 2014 Proceedings.